



Department of Chemistry
presents
Certificate Course

Course Coordinator
Dr. Digna Varghese

*"Food
Chemistry
&
Quality
Assurance"*

*Intake date:
1 August 2023*





CHRIST

COLLEGE (AUTONOMOUS)
IRINJALAKUDA, KERALA

Reaccredited by NAAC with 'A++' grade



Course Code: BSC 01

Eligibility criteria :

Students in their final year
of B.Sc. program,
specializing in Chemistry.

Course duration:
30 hours



Syllabus

MODULE 1.

FOOD [6 hour]

Module II:

Food additives [4 hour]

Module III:

Modern Food habits [4 hour]

Module IV:

Adulteration [6 hour]

Module V:

*Methods of detection
adulteration in common foods
[Practical 10 hour]*

Objectives.....

- To identify and understand the major and minor constituents of various foods.
- To gain knowledge about the composition and characteristics of different food items.
- To delve into the chemistry underlying food components, exploring the function of each constituent and how they interact within foods.
- To grasp the operational roles of food additives and examine their significance in the food processing industry.
-

Contact:

drdignavarghese@gmail.com
Phone Number: 9496441322

CHRIST COLLEGE (AUTONOMOUS) IRINJALAKUDA,

CERTIFICATE COURSE

Food Chemistry

Time 30 minutes

Marks : 25

Answer all questions

1. Shake equal amounts of milk and water, and if it forms a dense lather, the milk is adulterated with...
2. If urea is adulterated with milk, the litmus paper changes color to
3. Give two long-term effects of modern food habits.
4. What is the reagent added to examine vanaspathi in milk.
5. Can you suggest any reagent to test whether milk is adulterated with starch?
6. Name the major protein present in milk.
7. Formalin is added as an adulterant to milk as a
8. Incidental adulterant is
9. Give any sensory evaluation a quick test for synthetic milk.
10. The milk is easily tested with urease strips. Why?
11. Adulterated food is dangerous because it may be...
12. Give two examples of preservatives.
13. is a food additive added to remove fat content and also known as a greedy chemical.
14. is the carbohydrate present in milk.
15. is known as a refreshing beverage and also regarded as a health tonic.
16. is a non-alcoholic drink.
17. Any meal with low preparation time can be considered as

18. is an example of artificial sweetener.
19. Milk is an excellent source of
20. used as an adulterate in milk to increase lactometer readings.
21. sometimes called comfort foods.
22. added to mixed dried fruit to maintain moisture level and softness of
the fruit.
23. What is used to test glucose in milk?
24. What is the reagent added to examine vanaspathi in milk.
25. Instant food is produced in the process of



SYLLABUS

CERTIFICATE COURSE “FOOD CHEMISTRY AND QUALITY ASSURANCE”

COURSE COORDINATOR: Dr. DIGNA VARGHESE

ASSISTANT PROFESSOR, DEPT. OF CHEMISTRY, CHRIST COLLEGE
(AUTONOMOUS), IRINJALAKUDA



DEPARTMENT OF CHEMISTRY

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

Abstract: Certificate course for B.Sc. programme in Chemistry- Syllabus—to be implemented-with effect from 2023 onwards.

CERTIFICATE COURSE

“FOOD CHEMISTRY & QUALITY ASSURANCE”

FOR

FINAL YEAR B.SC. DEGREE PROGRAMME

IN

CHEMISTRY (2023)

SCHEME AND SYLLABUS 2023

Course Duration– 30 Hours**Eligibility– All B.Sc. final year students having chemistry as major subject**

Evaluation Process– Assessment of candidates will be done through theoretical assignments & practical examinations after completion of theory. All successful candidates will be awarded with certificates.

PROGRAM LEARNING GOALS:

Graduates will demonstrate and apply knowledge of the core competencies in Food Chemistry and analysis.

Student Learning Goals and Outcome

2.1: Understand the chemistry involved in the properties of foods and its components.

2.2: Understand the chemistry of food additives

2.3: Understand the adulteration and its methods of detection.

COURSE OBJECTIVES:

At the end of the course, students will:

- demonstrate the properties of different food components and interactions among these components modulate the specific quality attributes of food systems
- understand the food quality with emphasis on home and food industry applications

To understand the chemistry of foods - composition of food, role of each component and their interaction.

- To understand the functional aspects of food additives and to study their role in food processing.

Food Chemistry and quality assurance (30 hrs)

MODULE 1. FOOD [6 hour]

Definition , Composition of food, Functions of food Carbohydrates- composition, classification, sources, functions, Lipids – composition, saturated, unsaturated fatty acids, classification, food sources, functions of fats, Proteins – composition, classification sources, functions, denaturation, and protein deficiency. Amino acids – classification, Physio-chemical properties. Minerals: functions, sources and deficiency of following minerals –calcium, Iron, Iodine, sodium, potassium. Vitamins – Classification, sources, functions and deficiency diseases caused by following vitamins: Fats soluble vitamins – Vitamin A, D, E and K Water soluble vitamins – Vitamin C and B-complex.

Module II: Food additives [4 hour]

Food additives: Introduction, need of food additives in food processing and preservation, Types of food additives: Taste enhancers, Food colourings, Antioxidants and preservatives, Artificial sweeteners.

Module III: Modern Food habits [4 hour]

Definition and health effects of fast foods, instant foods, dehydrated foods and junk foods. Harmful effects of modern food habits. Importance of milk, coconut water and Neera.

Module IV: Adulteration [6 hour]

Adulteration: Definition, General impact on human health, Common adulterants in different foods

Food Contamination - Physical, chemical (heavy metals, pesticide residues, antibiotics, veterinary drug residues, dioxins, environmental pollutants,

radionucleides, solvent residues, chemicals) Natural toxins. Artificial ripening of fruits and its side effects.

Module IV: Methods of detection adulteration in common foods [Practical 10 hour]

Milk and milk products, vegetable oils, cereals, tea, coffee powder, chilly powder.

A certificate will be issued to the successful candidates

ATTENDANCE SHEET FOR CERTIFICATE COURSE: FOOD CHEMISTRY & QUALITY ASSURANCE

STARTING DATE: 1/08/2023

CLOSING DATE: 21/09/2023

COURSE COORDINATOR: Dr. DIGNA VARGHESE

COURSE PERIOD: 30 HOURS

PRESENTATION OF TOPIC: 1 HOUR/DAY

[illegible]

121	Asika B Lakshmi	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
122	Devina M Dassan	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
124	Evelyn Benny	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
125	Gayathri T	x	x	x	x	x	A	x	x	x	x	A	x	x	x	A	x	x
126	Geo Paul	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
127	Gladwin V J	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
128	Gokul Mohan C	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
129	Harigovind P	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
130	Harsha C P	A	x	x	x	x	x	x	A	x	x	x	x	x	A	x	x	x
131	Henin Johnson	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
132	Hridya Biju	x	x	x	x	x	x	A	x	x	x	x	A	x	x	x	x	x
133	Jith Jesus Jose	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
134	Joshua Skariah Thomas	x	x	x	x	x	x	x	x	x	x	A	x	x	x	x	A	x
135	Mohammed Siyad B M	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
136	Nandana T	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
137	Neeraj Ramachandran	x	x	x	A	x	x	x	x	x	x	x	A	x	x	x	x	A
139	Ramon K R	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
140	Rassin Rafi E	x	x	A	x	x	x	x	x	x	A	x	x	x	x	A	x	x
141	Sandra Manoj	x	A	x	x	x	x	A	x	x	x	x	x	x	x	A	x	x
142	Sethulakshmi N S	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
143	Sivanandana	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
144	Sneha Babu	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
146	Sreehari K	x	x	x	x	A	x	x	x	x	x	A	x	x	x	x	A	x
148	Vaishnav S	A	x	x	x	x	A	x	x	x	x	A	x	x	x	x	A	x

[illegible]

132	Hridya Biju	x	A	x	x	A	x	x	x	x	x	A	x	x
133	Jith Jesus Jose	x	x	x	x	x	x	x	x	x	x	x	x	x
134	Joshua Skariah Thomas	x	x	x	x	x	x	x	x	x	x	x	x	x
135	Mohammed Siyad B M	x	x	x	x	x	x	x	x	x	x	x	x	x
136	Nandana T	x	x	x	x	x	x	x	x	x	x	x	x	x
137	Neeraj Ramachandran	x	x	x	x	x	x	x	x	x	x	x	x	x
139	Ramon K R	x	x	x	A	x	x	x	x	x	x	x	x	x
140	Rassin Rafi E	x	A	x	x	x	x	x	x	A	x	x	x	x
141	Sandra Manoj	x	x	x	x	x	x	x	A	x	x	A	x	x
142	Sethulakshmi N S	x	x	x	x	x	x	x	x	x	x	x	x	x
143	Sivanandana	x	x	x	x	x	x	x	x	x	x	x	x	x
144	Sneha Babu	x	x	x	x	x	x	x	x	x	x	x	x	x
146	Sreehari K	x	x	x	x	x	x	x	x	x	x	x	x	x
148	Vaishnav S	x	A	x	x	x	x	A	x	x	x	A	x	x

COURSE REPORT

CERTIFICATE COURSE: FOOD CHEMISTRY & QUALITY ASSURANCE

CERTIFICATE COURSE	FOOD CHEMISTRY & QUALITY ASSURANCE
DEPARTMENT	DEPARTMENT OF CHEMISTRY
NAME OF INSTITUTION	CHRIST COLLEGE (AUTONOMOUS), IRINJALKUDA
COURSE ENROLLEES	43 BSc CHEMISTRY FINAL YEAR STUDENTS [2021-2024 BATCH]
STARTING DATE	1 AUGUST 2023
COURSE PERIOD	30 HOURS
PRESENTATION OF TOPIC	1 HOUR/DAY
DATE OF EXAMINATION	25/09/2023
CERTIFICATE RECIPIENTS	43 BSc CHEMISTRY FINAL YEAR STUDENTS

Course Coordinator: Dr. DIGNA VARGHESE

MARKLISTS FOR CERTIFICATE COURSE: FOOD CHEMISTRY & QUALITY ASSURANCE

DATE OF EXAM: 25/09/2023

COURSE COORDINATOR: Dr. DIGNA VARGHESE

EXAM PATTERN: MULTIPLE CHOICE QUESTIONS

COURSE PERIOD: 30 HOURS

MAXIMUM MARKS: 25 MARKS

Roll No.	Name of student	Date of exam	EXAM ATTENDED	Marks	Certificate issued
101	Aashika CJ	25/09.23	X	25	YES
102	Abhini C J	25/09.23	X	17	YES
103	Abhirami N S	25/09.23	X	20	YES
104	Adhelia Jessil	25/09.23	X	20	YES
105	Aeinjana Dixon	25/09.23	X	21	YES
106	Agna Davis	25/09.23	X	25	YES
107	Aiswarya K J	25/09.23	X	25	YES
108	Aleena Babu	25/09.23	X	25	YES
110	Anandhakrishnadas K	25/09.23	X	18	YES
111	Angel Mariya James	25/09.23	X	25	YES
112	Anlee Benny	25/09.23	X	25	YES
113	Anmary T A	25/09.23	X	19	YES
114	Ann Maria Limpson	25/09.23	X	20	YES
115	Anna Xavier	25/09.23	X	20	YES
116	Anriya George	25/09.23	X	25	YES
117	Anu Jose	25/09.23	X	22	YES
118	Anvy Vincent	25/09.23	X	25	YES
119	Anwin S Vadakan	25/09.23	X	21	YES
120	Aravindh T T	25/09.23	X	25	YES
121	Asika B Lakshmi	25/09.23	X	25	YES
122	Devina M Dassan	25/09.23	X	24	YES
124	Evelyn Benny	25/09.23	X	25	YES
125	Gayathri T	25/09.23	X	25	YES
126	Geo Paul	25/09.23	X	15	YES
127	Gladwin V J	25/09.23	X	20	YES
128	Gokul Mohan C	25/09.23	X	23	YES
129	Harigovind P	25/09.23	X	16	YES
130	Harsha C P	25/09.23	X	25	YES
131	Henin Johnson	25/09.23	X	25	YES
132	Hridya Biju	25/09.23	X	17	YES
133	Jith Jesus Jose	25/09.23	X	18	YES
134	Joshua Skariah Thomas	25/09.23	X	23	YES
135	Mohammed Siyad B M	25/09.23	X	24	YES
136	Nandana T	25/09.23	X	20	YES
137	Neeraj Ramachandran	25/09.23	X	25	YES

139	Ramon K R	25/09.23	X	14	YES
140	Rassin Rafi E	25/09.23	X	16	YES
141	Sandra Manoj	25/09.23	X	15	YES
142	Sethulakshmi N S	25/09.23	X	20	YES
143	Sivanandana	25/09.23	X	25	YES
144	Sneha Babu	25/09.23	X	25	YES
146	Sreehari K	25/09.23	X	22	YES
148	Vaishnav S	25/09.23	X	14	YES



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CERTIFICATE OF COMPLETION

THIS IS TO CERTIFY THAT

AASHIKA CJ

HAS SUCCESSFULLY COMPLETED THE FOLLOWING CERTIFICATE COURSE
FROM THE DEPT. OF CHEMISTRY, CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA,

FOOD CHEMISTRY AND QUALITY ASSURANCE (30 HRS)

AUGUST 2023

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DR. DIGNA VARGHESE
COURSE COORDINATOR

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REV. DR. JOLLY ANDREWS
PRINCIPAL



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ABHINI C J

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THIS IS TO CERTIFY THAT

ADHELIA JESSIL

HAS SUCCESSFULLY COMPLETED THE FOLLOWING CERTIFICATE COURSE
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THIS IS TO CERTIFY THAT

AEINJANA DIXON

HAS SUCCESSFULLY COMPLETED THE FOLLOWING CERTIFICATE COURSE
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AGNA DAVIS

HAS SUCCESSFULLY COMPLETED THE FOLLOWING CERTIFICATE COURSE
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AISWARYA K J

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ALEENA BABU

HAS SUCCESSFULLY COMPLETED THE FOLLOWING CERTIFICATE COURSE
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ANANDHAKRISHNADAS K

HAS SUCCESSFULLY COMPLETED THE FOLLOWING CERTIFICATE COURSE
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ANGEL MARIYA JAMES

HAS SUCCESSFULLY COMPLETED THE FOLLOWING CERTIFICATE COURSE
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ANLEE BENNY

HAS SUCCESSFULLY COMPLETED THE FOLLOWING CERTIFICATE COURSE
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ANMARY T A

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THIS IS TO CERTIFY THAT

ANNA ZAVIER

HAS SUCCESSFULLY COMPLETED THE FOLLOWING CERTIFICATE COURSE
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THIS IS TO CERTIFY THAT

ANN MARIA LIMPSON

HAS SUCCESSFULLY COMPLETED THE FOLLOWING CERTIFICATE COURSE
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ANRIYA GEORGE

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ANU JOSE

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A handwritten signature in black ink, likely belonging to Dr. Digna Varghese.

DR. DIGNA VARGHESE
COURSE COORDINATOR

A handwritten signature in green ink, likely belonging to Rev. Dr. Jolly Andrews.

REV. DR. JOLLY ANDREWS
PRINCIPAL



CHRIST
COLLEGE (AUTONOMOUS)
IRINJALAKUDA, KERALA
Reaccredited by NAAC with 'A++' grade

CERTIFICATE OF COMPLETION

THIS IS TO CERTIFY THAT

ANVY VINCENT

HAS SUCCESSFULLY COMPLETED THE FOLLOWING CERTIFICATE COURSE
FROM THE DEPT. OF CHEMISTRY, CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA,
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PRINCIPAL



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ANWIN S VADAKAN

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THIS IS TO CERTIFY THAT

ASIKA B LAKSHMI

HAS SUCCESSFULLY COMPLETED THE FOLLOWING CERTIFICATE COURSE
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THIS IS TO CERTIFY THAT

DEVINA M DASSAN

HAS SUCCESSFULLY COMPLETED THE FOLLOWING CERTIFICATE COURSE
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THIS IS TO CERTIFY THAT

EVELYN BENNY

HAS SUCCESSFULLY COMPLETED THE FOLLOWING CERTIFICATE COURSE
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GAYATHRI T

HAS SUCCESSFULLY COMPLETED THE FOLLOWING CERTIFICATE COURSE
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THIS IS TO CERTIFY THAT

GEO PAUL

HAS SUCCESSFULLY COMPLETED THE FOLLOWING CERTIFICATE COURSE
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GLADWIN V J

HAS SUCCESSFULLY COMPLETED THE FOLLOWING CERTIFICATE COURSE
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COURSE COORDINATOR

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PRINCIPAL



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CERTIFICATE OF COMPLETION

THIS IS TO CERTIFY THAT

HENIN JOHNSON

HAS SUCCESSFULLY COMPLETED THE FOLLOWING CERTIFICATE COURSE
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PRINCIPAL



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CERTIFICATE OF COMPLETION

THIS IS TO CERTIFY THAT

HRIDYA BIJU

HAS SUCCESSFULLY COMPLETED THE FOLLOWING CERTIFICATE COURSE
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THIS IS TO CERTIFY THAT

JITH JESUS JOSE

HAS SUCCESSFULLY COMPLETED THE FOLLOWING CERTIFICATE COURSE
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CERTIFICATE OF COMPLETION

THIS IS TO CERTIFY THAT

JOSHUA SKARIAH THOMAS

HAS SUCCESSFULLY COMPLETED THE FOLLOWING CERTIFICATE COURSE
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MOHAMMED SIYAD B M

HAS SUCCESSFULLY COMPLETED THE FOLLOWING CERTIFICATE COURSE
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NANDANA T

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THIS IS TO CERTIFY THAT

NEERAJ RAMACHANDRAN

HAS SUCCESSFULLY COMPLETED THE FOLLOWING CERTIFICATE COURSE
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RAMON K R

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RASSIN RAFI E

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THIS IS TO CERTIFY THAT

SANDRA MANOJ

HAS SUCCESSFULLY COMPLETED THE FOLLOWING CERTIFICATE COURSE
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SIVANANDANA

HAS SUCCESSFULLY COMPLETED THE FOLLOWING CERTIFICATE COURSE
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